PRIMERGY BX620 S3
2-way Server Blade

Service Supplement

Edition November 2006

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Certified documentation according to DIN EN ISO 9001:2000

To ensure a consistently high quality standard and user-friendliness, this documentation was created to meet the regulations of a quality management system which complies with the requirements of the standard DIN EN ISO 9001:2000.

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Contents

1 Preface 5

1.1 Documentation Overview 5
1.2 Notational Conventions 7

2 Procedure 9

3 Important Notes 11

3.1 Notes on Safety 11
3.2 Environmental Protection 15

4 Replacement Routines 19

4.1 Preparation 19
4.2 Replacing the Control Panel Board 23
4.3 Exchanging Processors 26
4.4 Replacing the Battery 34

5 Diagnosis and Maintenance 37

5.1 Server Blade Diagnostics LEDs 37
5.2 MAC/iSCSI Address Label 38
5.3 DIP Switch Settings 39
5.4 Recovering the Server Blade BIOS 41
5.5 Spare Parts and Add-On Modules 43

Abbreviations 47

Index 51

1 Preface

The PRIMERGY BX620 S3 2-way Server Blade is an Intel-based server blade that can be operated in the PRIMERGY BX600 S2 basic unit.

1.1 Documentation Overview

Concept and target groups

This Service Supplement supplements the information contained in the Operating Manual.

ATTENTION!

The activities described in this manual may only be performed by specialist personnel with technical training.

The installation and removal of the hot-plug components is described in the Operating Manual supplied with the server.

Service DVD

A service DVD is available for service partners of Fujitsu Siemens Computers. This DVD contains the following manuals in PDF format:

- the “Safety” manual
- the “Ergonomics” manual
- the Operating Manual for PRIMERGY BX620 S3
- the documentation for the server blade models available for the PRIMERGY BX620 S3 basic unit

These PDF files can also be downloaded from the Internet free of charge: At *http://manuals.fujitsu-siemens.com* you will find an overview page showing the online documentation available on the Internet. You can go to the PRIMERGY Server documentation by clicking on “industry standard servers”.

Information/Activity	**Manual**
Features and technical data of the server blade Installation and initial operation, such as: – Connections to the basic unit – Operation – Configuring the server blade – Firmware update (server blade BIOS and BMC) – Installing the server blade in the basic unit BIOS setup Troubleshooting Installing/removing hot-plug components: – Hard disk modules	Operating Manual
Extensions and conversions – Installing memory modules – Adding processors – Replacing the storage module	Options Guide
Replacement routines – Replacing the control panel – Exchanging the processor – Replacing the CMOS-battery Diagnostics – Diagnostic LEDs – MAC/iSCSI address labels – BIOS recovery – DIP Switch Settings Spare parts list	Service Supplement
Detailed safety information	Safety manual

Table 1: Overview of the BX620 S3 server blade documentation

1.2 Notational Conventions

The following notational conventions are used in this manual:

“quotation marks”	indicate names of chapters and terms that need to be emphasized.
►	indicates an activity that must be performed.
ATTENTION!	indicates that, if you ignore the information given at this point, your health, the correct functioning of your system or the security of your data may be at risk.
	indicates supplementary information, remarks and tips.

Table 2: Notational conventions

2 Procedure

ATTENTION!

The activities described in this manual should only be performed by engineers, service personnel or technical specialists.

- First of all please familiarize yourself with the safety instructions in the chapter “Important Notes” on page 11ff.
- Make sure that all the manuals you need (see service DVD) are available, printing out the PDF files if necessary. You will definitely need the Operating Manual of the basic unit.
- Shut down the server blade correctly, switch it off and remove it from the basic unit as described in the chapter “Replacement Routines” on page 19f.
- Replace the defective component as described in the relevant chapter.
- Close the server blade.
- Start the server blade.[1]
- If necessary, configure the operating system as required.[1]

[1] See Operating Manual.

3 Important Notes

This chapter provides safety instructions which you must observe when handling your system.

3.1 Notes on Safety

The following safety instructions can also be found in the manual entitled “Safety”.

This device complies with the relevant safety regulations for IT equipment, including electronic office machines for use in an office environment.

If you have any questions, contact your sales outlet or the Fujitsu Siemens Computers customer service center.

ATTENTION!

The activities described in this manual should only be performed by engineers, service personnel or technical specialists. Equipment repairs should only be performed by qualified staff! Any failure to observe the guidelines in this manual could endanger the user (through electric shock, fire hazards) or damage the equipment. Please note that any unauthorized opening of the device will result in the invalidation of the warranty and exclusion from all liability.

Before setting up

ATTENTION!

- During installation and before operating the device, observe the instructions on environmental conditions for your device (see Operating Manual).
- If the device is brought in from a cold environment, condensation may form both inside and on the outside of the machine.

  Before operating the device, wait until it is absolutely dry and has reached approximately the same temperature as the installation site. Any failure to observe the guidelines in this manual could damage the equipment.

ATTENTION!

- Transport the device only in its original packaging or in packaging which protects it from knocks and jolts.

Installation and operation

ATTENTION!

- Read the notes on installation and operation in the Operating Manual of the PRIMERGY BX600 S2 basic unit.
- When installing the server blade in the basic unit, beware of the energy hazard at the midplane conctacts. A short-circuit on these contacts may damage the system.
- Data cables must be adequately shielded to avoid interference.
- For the LAN wiring, the requirements according to standards EN 50173 and EN 50174-1/2 apply. The minimum requirement is the use of a protected LAN line of category 5 for 10/100 Mbps Ethernet, and/or of category 5e for Gigabit Ethernet. The requirements of the specification ISO/IEC 11801 must also be taken into account.
- Route the cables in such a way that they do not form a potential hazard (tripping) and cannot be damaged. When connecting the device, refer to the relevant notes in the Operating Manual.
- Do not connect or disconnect any data transmission cables during a thunderstorm (lightning hazard).
- Be careful to ensure that no objects (e.g. jewelry, paper clips etc.) or liquids get inside the device (electric shock, short circuit).
- In emergencies (e.g. damaged casing, elements, or cables, penetration of liquids or foreign bodies), switch off the device immediately, unplug it from the grounded power outlet, and contact your customer service centre.

ATTENTION!

- Proper operation of the device (in accordance with IEC60950/EN 60950) is only ensured if the casing is completely assembled and the rear covers for the installation openings are in place (electric shock, cooling, fire protection, interference suppression).

ATTENTION!

- Install only system extensions that satisfy the requirements and rules governing safety, electromagnetic compatibility, and telecommunications terminal equipment.

  If you install other extensions, you may damage the system or violate these safety regulations.

  Information on which system extensions are suitable can be obtained from the customer service center or your sales outlet.

- The components marked with a warning label (e.g. lightning symbol) may only be opened, removed, or exchanged by authorized, qualified personnel, with the exception of the hot-plug/hot-swap components.
- If you cause a defect on the device by installing or exchanging system extensions, the warranty will be invalidated.
- You may only set the resolutions and refresh rates specified in the operating manual for your monitor.
  Otherwise, you may damage the monitor. If you are in any doubt, contact your sales outlet or customer service center.

Batteries

ATTENTION!

- Incorrect replacement of batteries can lead to risk of explosion. The batteries must be replaced with an identical battery or with a battery type recommended by the manufacturer.
- Do not throw batteries into the trash can. Please dispose of them in accordance with local regulations for special refuse.
- When replacing the lithium battery in the relevant components, always follow the instructions in this manual.
- All batteries containing pollutants are marked with a symbol (a crossed-out garbage can). The marking also contains the chemical symbol of the heavy metal that classifies the battery as a pollutant:

  Cd Cadmium
  Hg Mercury
  Pb Lead

Modules with electrostatic-sensitive devices

Modules with electrostatic-sensitive devices are identified by the following sticker:

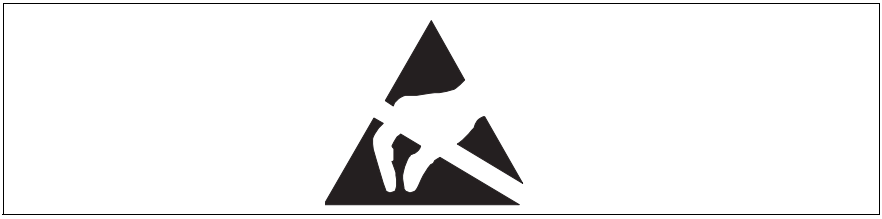

Figure 1: ESD label

When handling modules with ESDs, it is essential that you observe the following guidelines:

- You must always discharge static build-up, e.g. by touching a grounded object, before working with such components.
- Any devices or tools that are used must be free of electrostatic charge.
- Always hold components with ESDs at the edges.
- Do not touch any connectors or conduction paths on an ESD.
- Wear a suitable grounding cable that connects you to the external chassis of the basic unit.
- Place all the components on a pad which is free of electrostatic charge.

For a detailed description of how to handle ESD components, see the relevant European and international standards (EN 61340-5-1, ANSI/ESD S20.20).

3.2 Environmental Protection

Environmentally friendly product design and development

This product was designed in compliance with the Fujitsu Siemens Computers standard on ”environmentally friendly product design and development”. This means that the designers have taken into account crucial criteria such as durability, selection and labeling of materials, emissions, packaging, the ease with which the product can be dismantled, and the extent to which it can be recycled.

This saves on resources and helps to protect the environment.

Notes on saving energy

Devices that do not have to be on permanently should not be switched on until they are needed and should be switched off during long breaks and when work is finished.

Notes on packaging

Do not throw away the original packaging as you may need it for future transport. If possible, the device should be transported in its original packaging.

Notes on dealing with consumables

Please dispose of printer consumables and batteries in accordance with local regulations.

Do not throw batteries into the trash can. They must be disposed of in accordance with local regulations on special waste.

Notes on labeling plastic housing parts

If possible, do not stick your own self-adhesive labels on plastic housing parts, as this can hamper the recycling process.

Returning used electrical and electronic devices

– Separate disposal

  Old electrical and electronic devices should be disposed of separately and not with household refuse. Separate disposal allows this old equipment to be reused or recycled, which helps conserve resources.

– Return and collection systems

  It may be possible to return old electrical/electronic devices from private households free of charge. Please use the country-specific return or collection systems available to you (see “Local contacts” on page 17).

  The return of used devices which pose a health or safety risk for human beings due to soiling during use may be refused.

– Reuse and recycling

  By actively using any return or collection systems offered, you will be contributing to the reuse and recycling of electrical/electronic devices.

– Effects on the environment and human health

  Old electrical/electronic devices contain parts which must be handled selectively according to EU directives. Separate disposal and selective treatment are the basis for environment-friendly disposal and the protection of human health.

– Meaning of the symbol “Crossed out trash can on wheels"

  In accordance with EU directives, electrical (electronic) devices which are marked with one of the following symbols must not be disposed of with household refuse.

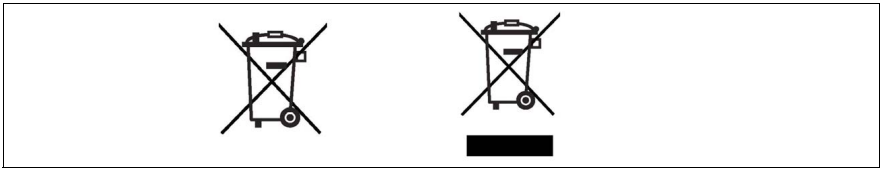

Figure 2: Symbols on electrical/electronic devices

Returning batteries

According to EU directives, batteries which are marked with one of the following symbols must not be disposed of together with household refuse.

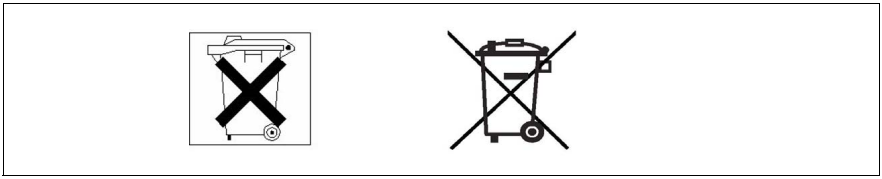

Figure 3: Symbols on batteries

With batteries containing harmful substances, the chemical symbol for the heavy metal contained is indicated below the trash can.

Cd Cadmium
Hg Mercury
Pb Lead

The following applies to Germany:

– Private consumers can return batteries at the point of sale or in the immediate vicinity thereof free of charge.

– The consumer is obligated to return defective or used batteries to the seller or to the return points established for this purpose.

Local contacts

For details on take-back and reuse of devices and consumables within Europe, contact your Fujitsu Siemens Computers branch office/subsidiary or our recycling centre in Paderborn, Germany:

Fujitsu Siemens Computers
Recycling Center
33106 Paderborn
Germany

Tel. +49 5251 8180-10

Fax +49 5251 8180-15

Internet: *www.fujitsu-siemens.com/recycling*

4 Replacement Routines

ATTENTION!

When working with systems and boards, make sure you observe the safety information in the chapter “Important Notes” on page 11ff.

4.1 Preparation

If you want to replace components which are not hot-pluggable, you must remove the server blade from the basic unit and open it.

- ► Exit all applications and shut down the server blade correctly.
- ► Press the On/Off button on the server blade control panel.

Removing the Server Blade from the Basic Unit

Figure 4: Removing the server blade

- ► Press the two touch points (1) to unlock the ejection levers.
- ► Open out the two ejection levers (2) simultaneously to disengage the server blade.

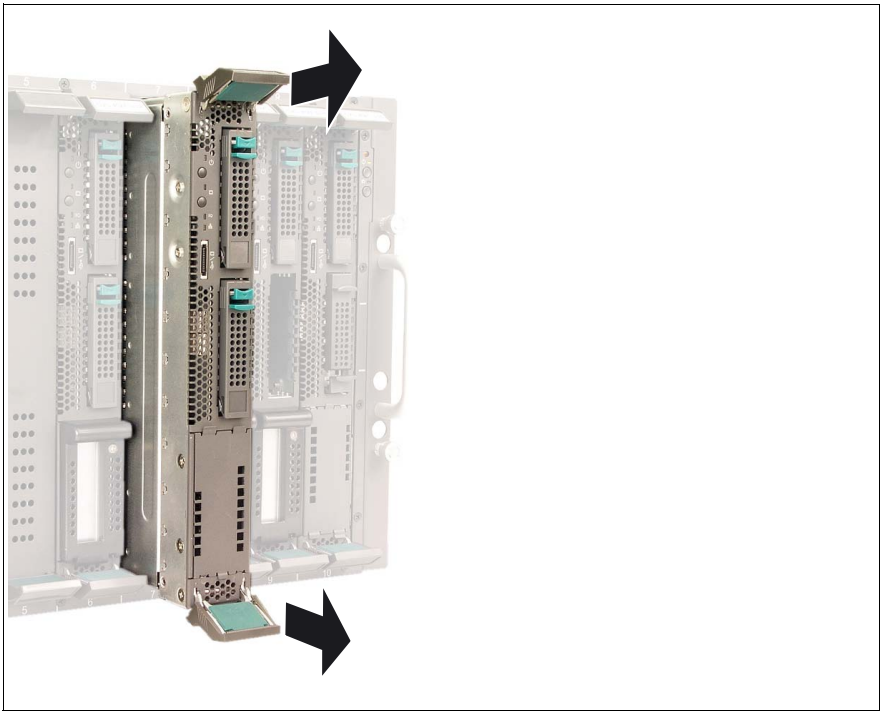

Figure 5: Removing the server blade

► Pull the server blade out of the basic unit.

Removing the Cover

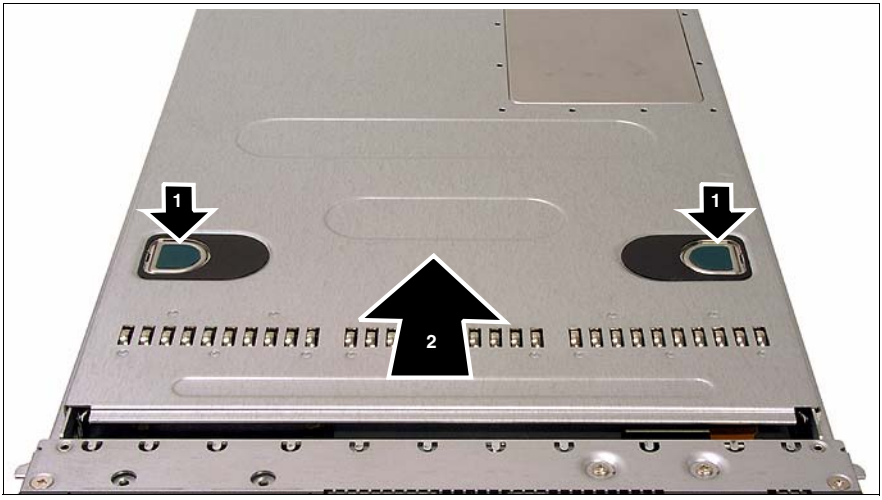

Figure 6: Removing the cover

- ► Press the two touch points (1) of the cover simultaneously to disengage it, and slide back the cover as far as it will go in the direction of the arrow (2).
- ► Take off the cover.

The server blade components are now freely accessible.

4.2 Replacing the Control Panel Board

The electronic elements of the control and connection panel of the server blade are located on a board that is connected to the system board of the server blade via a foil cable.

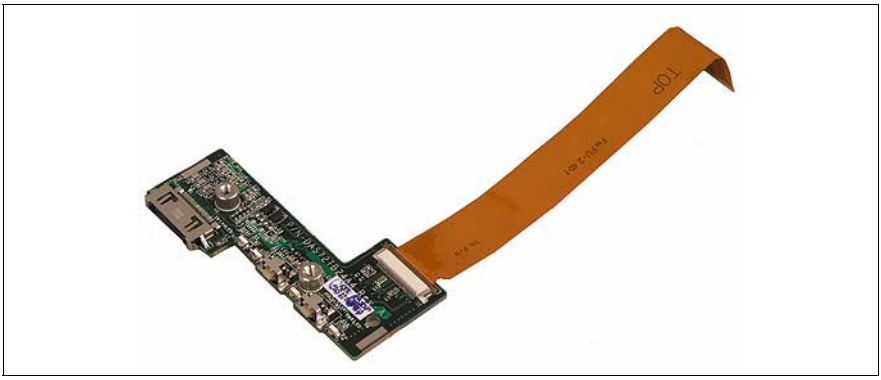

Figure 7: Control panel board with connection cable

Requirements

– The server blade has been removed.
– The cover of the server blade has been removed.

ATTENTION!

Make sure you observe the safety notes in the chapter “Important Notes” on page 11ff.

Removing the Control Panel Board

Figure 8: Pulling off the foil cable

► Loosen the clamping bracket (A) and disconnect the cable of the control panel board from the connector on the system board.

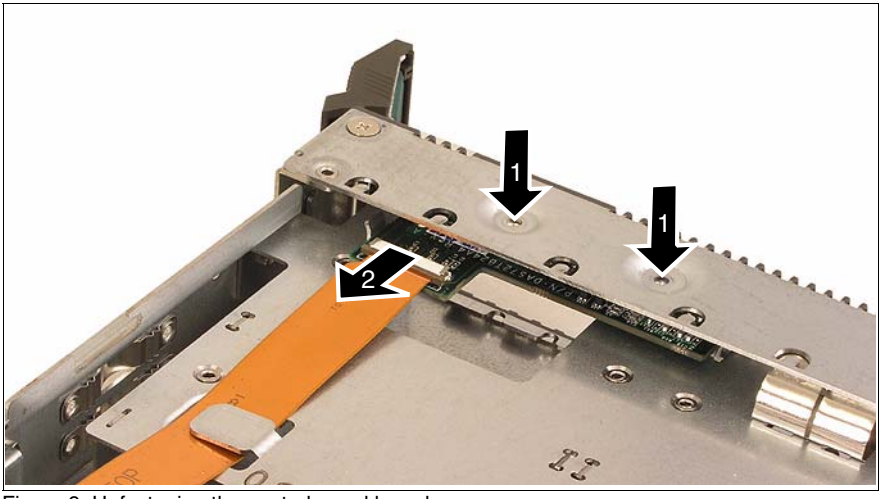

Figure 9: Unfastening the control panel board

► Undo the screw (1) and pull the control panel module out of the bay (2).

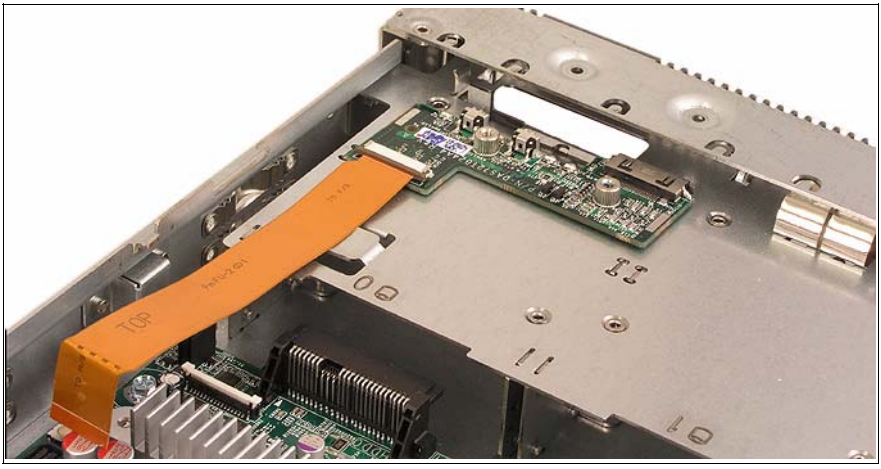

Figure 10: Removing the control panel board

► Remove the control panel board from the server blade chassis.

Installing the Control Panel Board

To install the control panel board follow the above procedure in reverse.

4.3 Exchanging Processors

You can install one or two processors of type Intel® XEON® DC in the PRIMERGY BX620 S3 server blade. The server blade supports Dempsey processors and the next processor generation Woodcrest and Clovertown (see "Spare Parts and Add-On Modules" on page 43).

Important Note

The **Clovertown** processor ist only compliant with part number A3C40083121 server blades. You can find out the server blade part number as follows:

– You can retrieve the part number with the web-based GUI of the management blade. Enter the menu *Server Blade ... Blade Info* for the concerning server blade and look for the value of the field *Model*, see the manual „*PRIMERGY BX Blade Server Systems: RemoteView Management - User Interface Description*".

– You can read the part number from a label located on the underside of the server blade chassis. The figure below shows the position of the part number label.

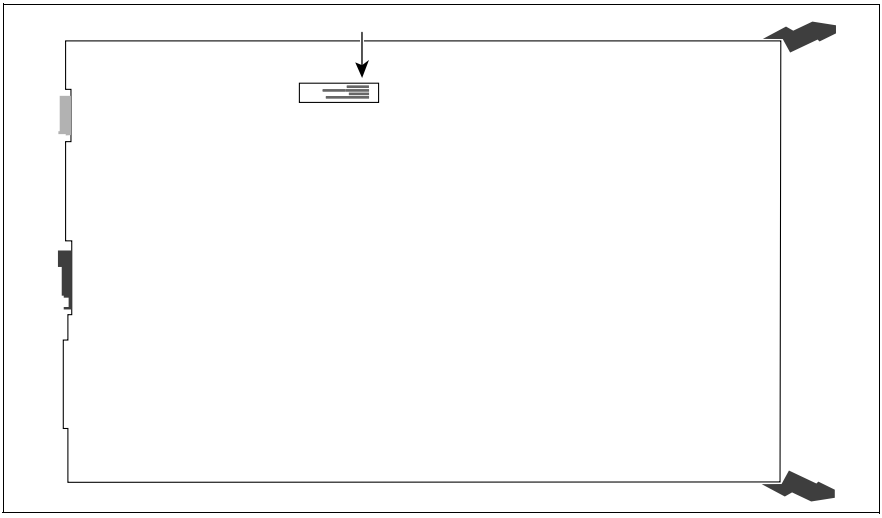

Bild 11: Part number label position (arrow)

ATTENTION!

- Always use processors of the same type. All processors must have the same frequency and cache size. For multi-processor mode use a suitable multi-processor operating system.
- Never touch the processor core.
- The thermal paste must be intact for mounting the processor.
- Never install a processor without a heat sink! The processor is likely to overheat, which may cause damage to the processor and the system board.

Requirements

– The server blade has been removed.
– The cover of the server blade has been removed.

Removing the Heat Sink

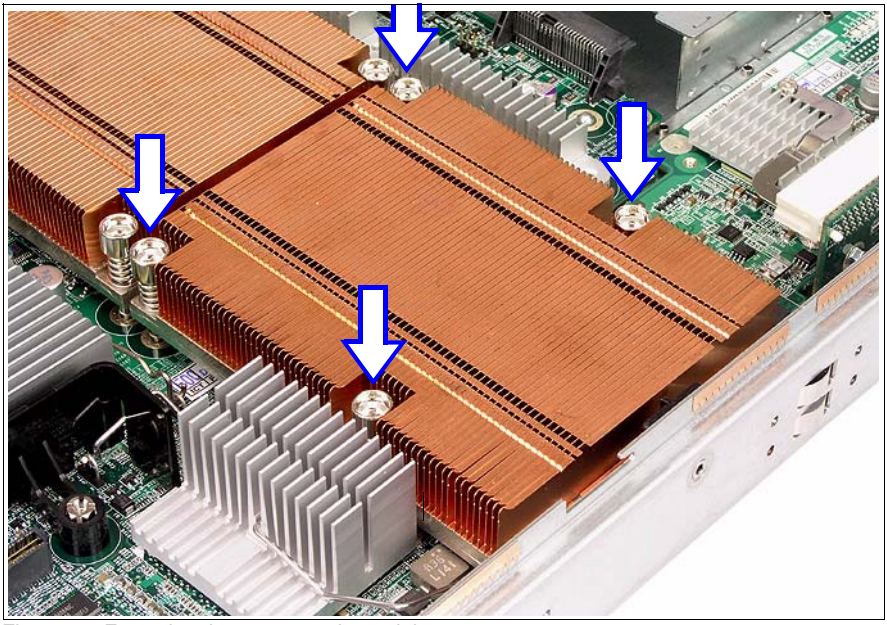

Figure 12: Fastening the processor heat sink

► Undo the four screws which fasten the processor heat sink and remove it.

Inserting the Processor

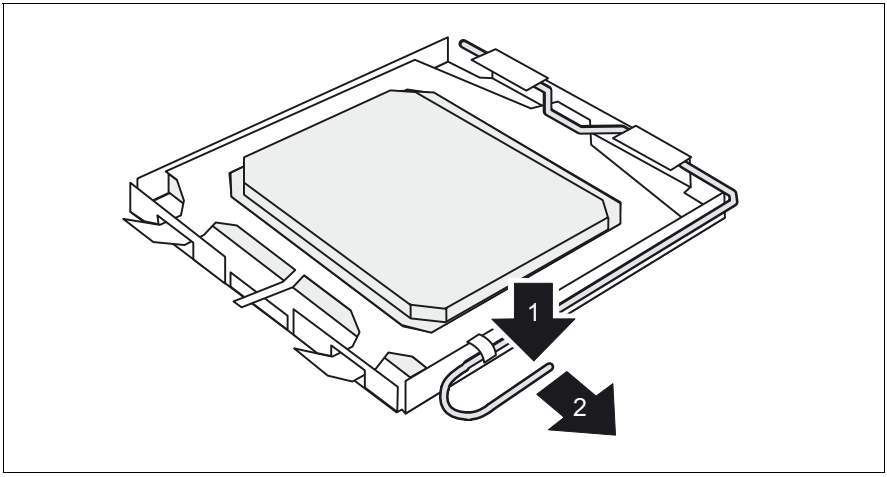

Figure 13: Releasing the locking lever of the processor socket

► Press the locking lever of the processor socket out of its locking position (arrows) and swivel it upward.

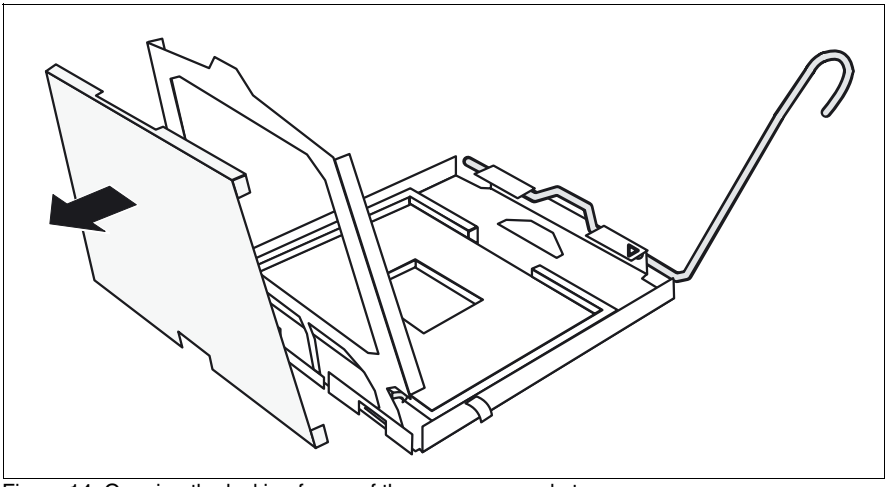

Figure 14: Opening the locking frame of the processor socket

► Open up the locking frame of the processor socket and take off the black protective cover (arrow).

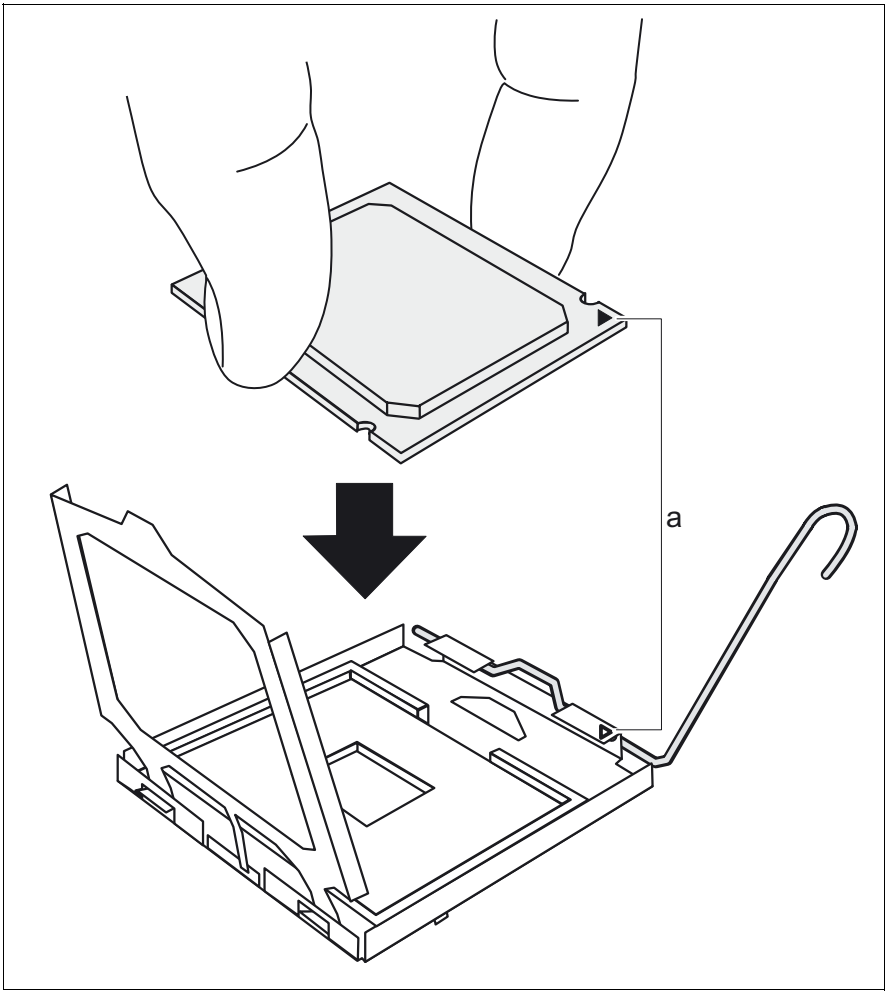

Figure 15: Inserting the processor

► Place the processor on the socket and make sure the marks on the processor point to the corresponding marks on the socket (a).

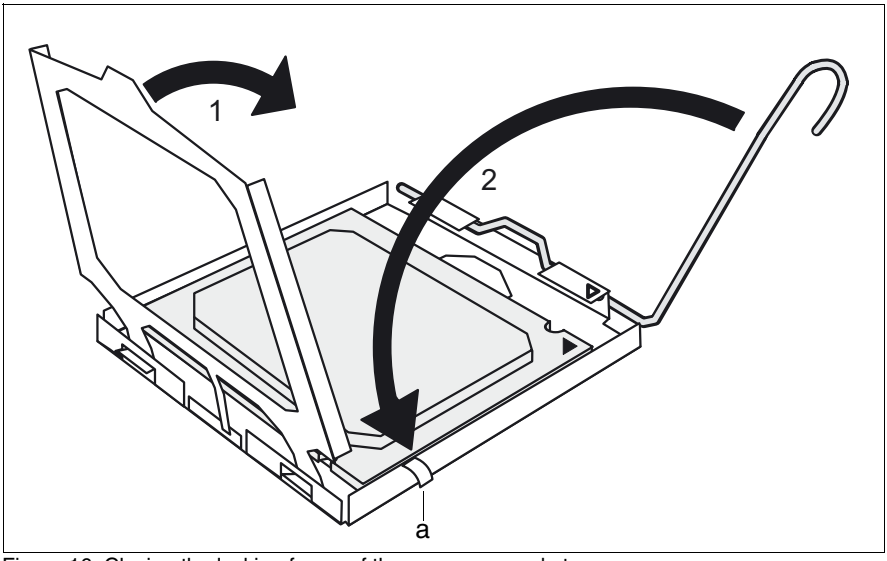

Figure 16: Closing the locking frame of the processor socket

► Close the locking frame of the processor socket (1), swivel the locking lever downward (2) and lock it under the small clip (a) that is attached to the socket.

Installing the Heat Sink

ATTENTION!

Before installing the heat sink check that the thermal paste is intact. If it is not, you must do the following before reinstalling the heat sink:

► Remove any remnants of the thermal paste from the bottom of the heat sink and clean the top of the processor. Use a lint-free Isopropyl alcohol wipe (e.g. CleanTex TexPad 801, available from specialist dealers)

► Apply a new film of thermal paste to the bottom of the heat sink.

To install a new heat sink, you must take off the protective cover over the thermal paste.

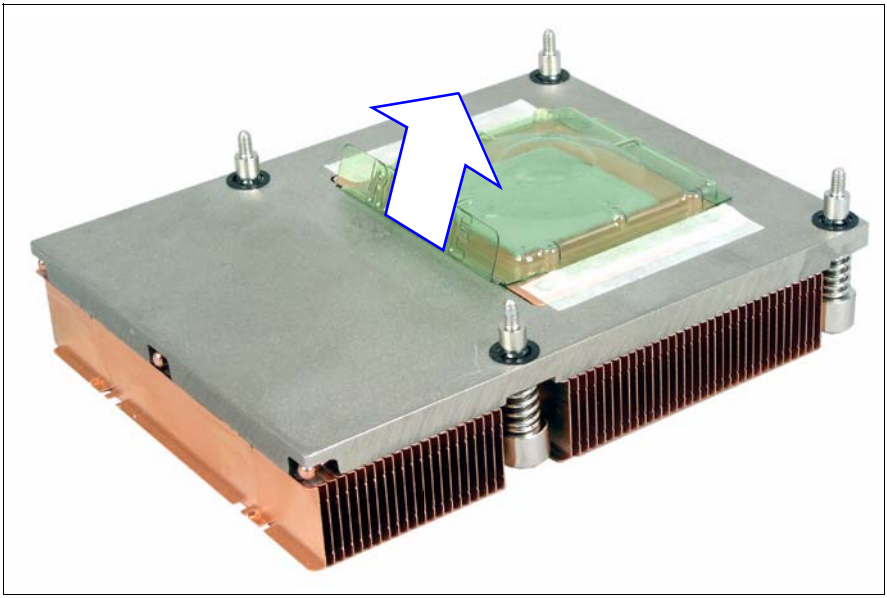

Figure 17: Removing the plastic cover

► Take the heat sink in your hand and remove the transparent protective cover over the thermal paste on the bottom of the heat sink.

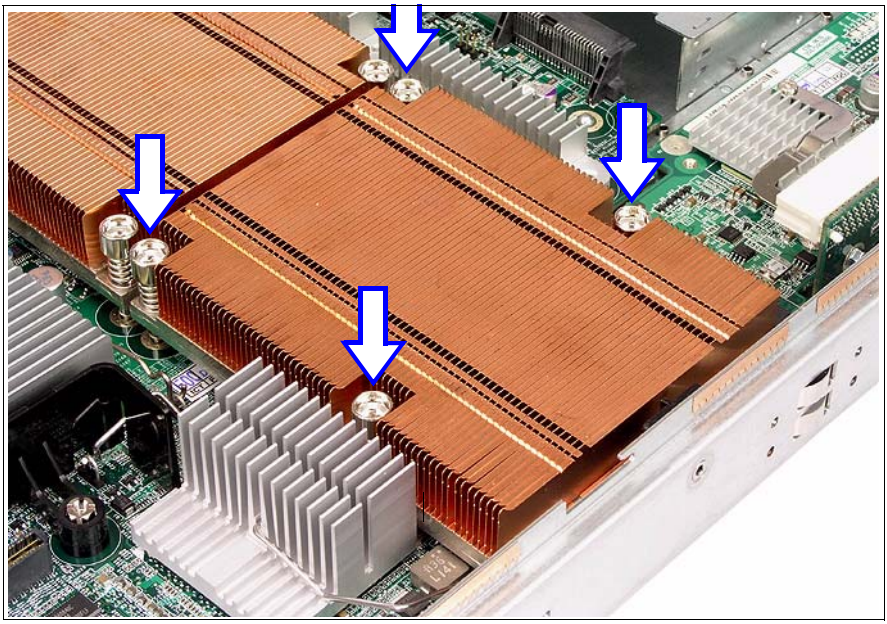

Figure 18: Fastening the processor heat sink

► Place the heat sink on the CPU and fix it by fastening the four premounted screws in diagonally opposite sequence.

ATTENTION!

If you do not add a second processor to the server blade, a dummy heat sink must be installed on the second processor socket to make sure that all server blade modules are cooled sufficiently.

Installing the Dummy Heat Sink

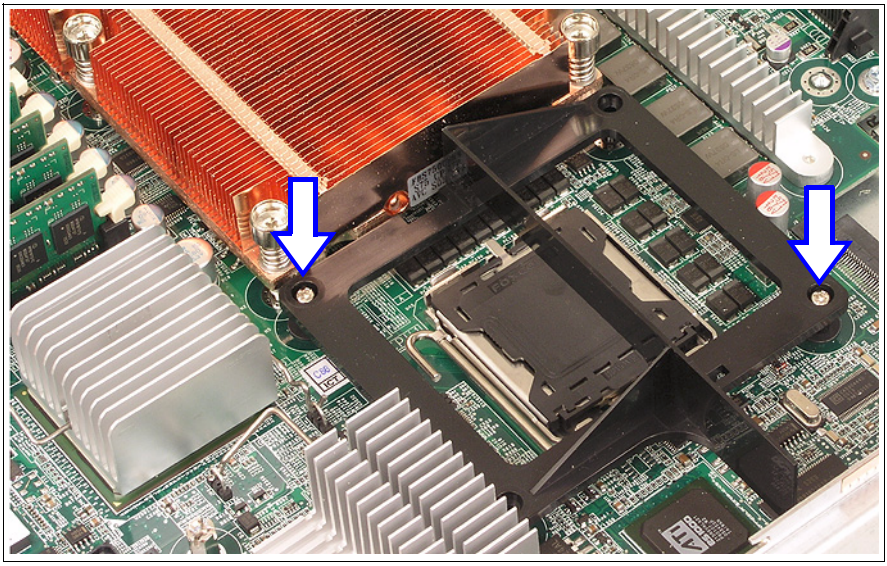

Figure 19: Installing the dummy heat sink

► Place the dummy heat sink over the the processor socket as shown in the figure and fasten it with two screws (arrows).

4.4 Replacing the Battery

To allow permanent saving of the system information, a lithium battery is installed which supplies the CMOS memory with power. If the battery voltage is too low or the battery is empty, a corresponding error message is displayed. In this case, the lithium battery must be replaced.

In your server blade, the CMOS battery is located between the connectors for the optional I/O module.

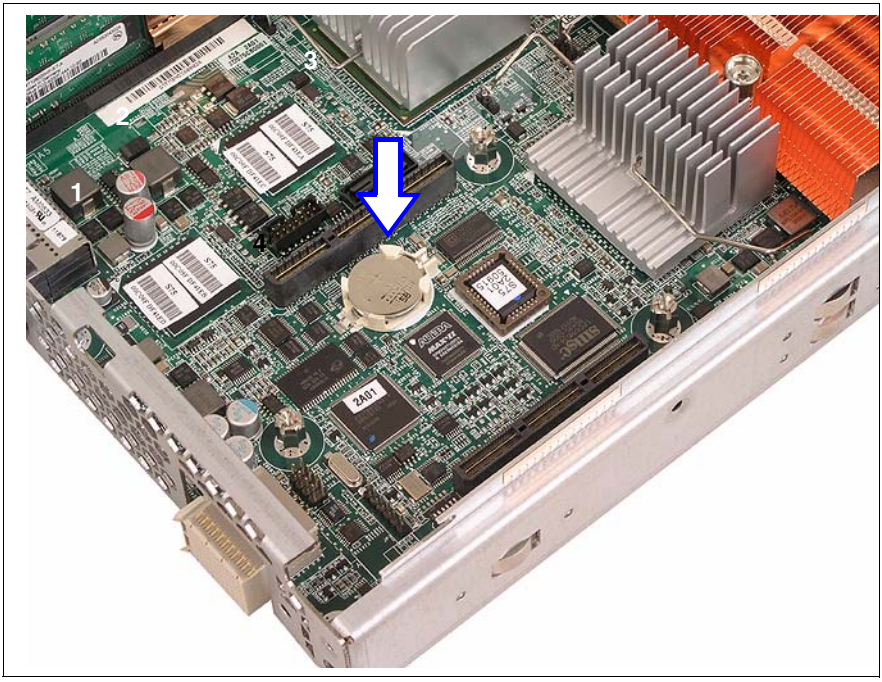

Figure 20: Position of the CMOS battery

ATTENTION!

Observe the safety notes and the information on handling batteries in the section “Batteries” on page 13.
Incorrect replacement of batteries can lead to risk of explosion. The batteries must be replaced with an identical battery or with a battery type recommended by the manufacturer.

ATTENTION!

Make sure you insert the lithium battery the right way round – the positive pole must be on top!

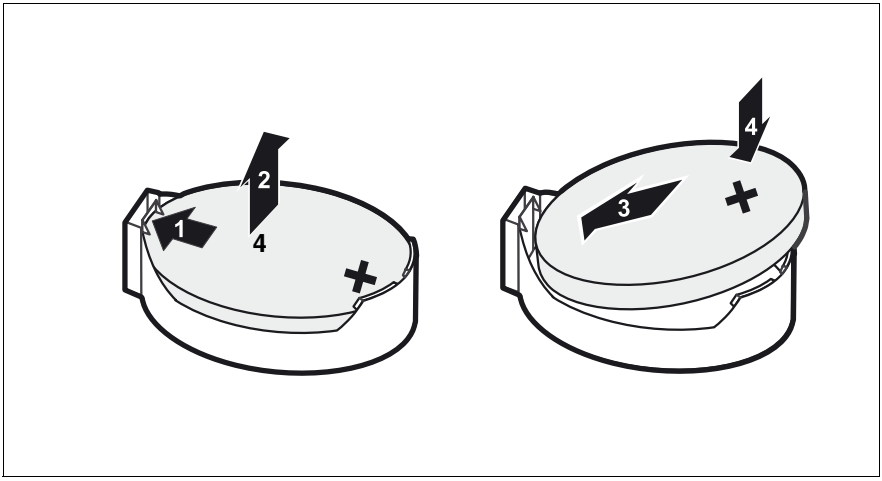

Figure 21: Replacing the battery

- Press the locking lever in the direction of the arrow (1) and remove the battery from its carrier (2).
- Insert a new lithium battery of identical type into the carrier (3) and engage it with the lever (4).

5 Diagnosis and Maintenance

5.1 Server Blade Diagnostics LEDs

Diagnostic LEDs help to locate defective components in the server blade.

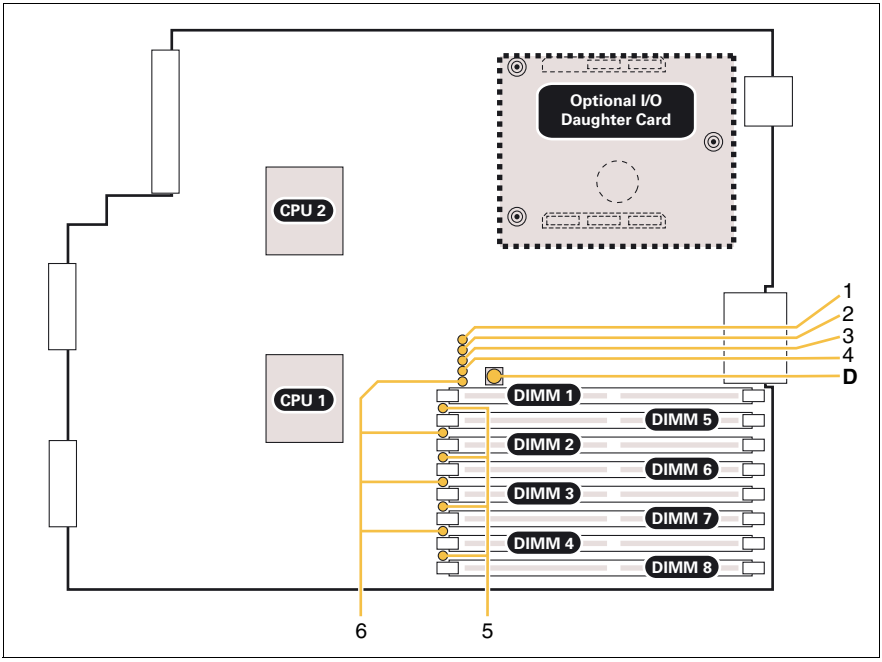

Figure 22: Diagnostic LEDs

► Press the diagnostics button (D) to locate a defective component via its glowing diagnostics LED. The meaning of the LEDs is explained in the following table.

LED/Button	Meaning
1	SAS controller with PCI module error
2	I/O daughter card error
3	CPU 2 error
4	CPU 1 error
5	FBD module (DIMM 5 - 8) error
6	FBD module (DIMM 1 - 4) error

Table 3: Meaning of the diagnostic LEDs

5.2 MAC/iSCSI Address Label

The following figure shows the position of the labels with the MAC and iSCSI addresses of the onboard LAN controllers.

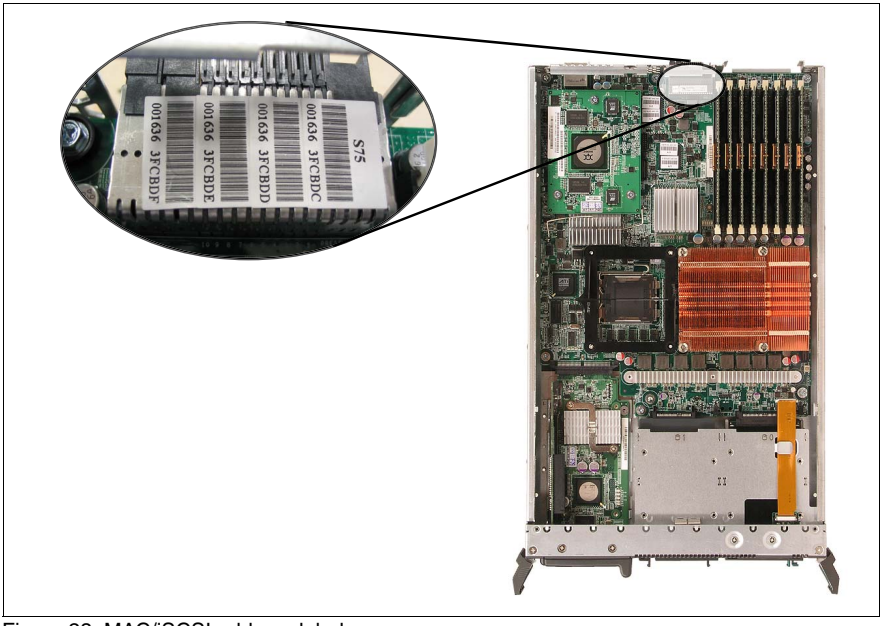

Figure 23: MAC/iSCSI address labels

5.3 DIP Switch Settings

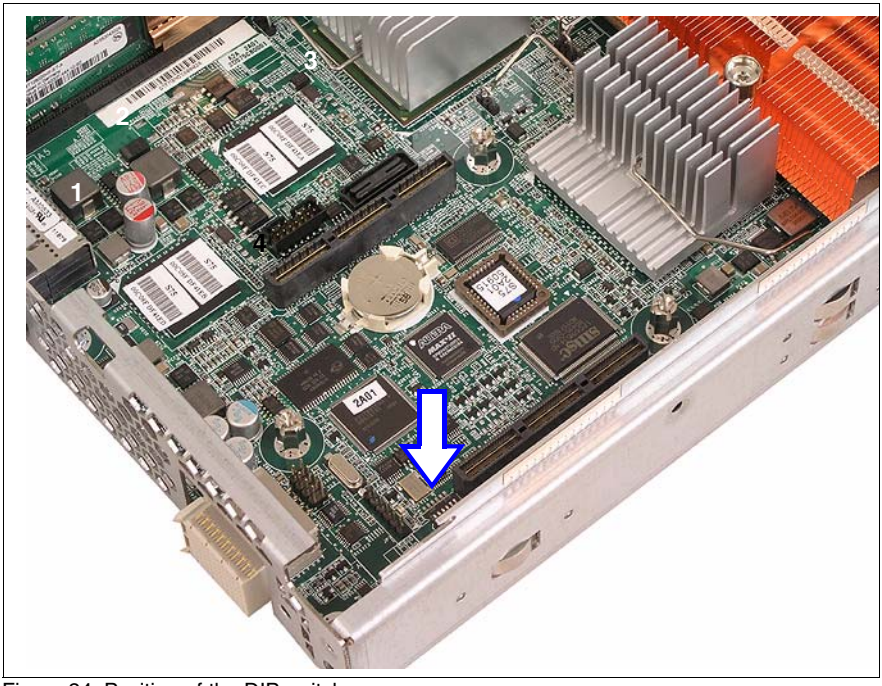

Figure 24: Position of the DIP switches

The server blade is delivered with the DIP switches set in the following positions:

Switch	Function	Default
1	Delete password	OFF
2	Clear CMOS memory	OFF
3	Restore system BIOS	OFF
4	Top block swap enabled	OFF
5	Switch for keyboard/mouse controller	ON
6	Not assigned	

Table 4: Preset DIP switches

The switch settings have the following meaning:

Switch 1	ON	Delete password enabled
	OFF	Delete password disabled
Switch 2	ON	Clear CMOS memory enabled
	OFF	Clear CMOS memory disabled
Switch 3	ON	Restore system BIOS enabled
	OFF	Restore system BIOS disabled
Switch 4	ON	Top block swap enabled
	OFF	Top block swap disabled
Switch 5	ON	Keyboard/mouse controller cannot be programmed (normal operation)
	OFF	Keyboard/mouse controller can be programmed
Switch 6	ON	Not assigned
	OFF	Not assigned

5.4 Recovering the Server Blade BIOS

This section describes how to recover the BIOS of a server blade in the event of an error.

ATTENTION!

This procedure must only be used in the event of an error.

Requirements

– The basic unit is connected to the mains.
– The server blade has been switched off.
– There is an external USB floppy disk drive.

Creating a BIOS Flash Floppy Disk

► Extract the BIOS update ZIP archive file on a PC hard disk.

The data for creating the BIOS flash floppy disk is contained in the software pool *http://support.fujitsu-siemens.com/com/support/downloads.html*.

► Insert an empty floppy disk into the floppy disk drive.

► Run the downloaded `FSC_`*`nnnn`*`.exe` file and follow the instructions on the screen to create a BIOS flash floppy disk.

Recovering the Server Blade BIOS

► Connect the monitor, keyboard and mouse to the KVM connector on the rear of the blade server chassis, see Operating Manual.

► Remove the server blade from the blade server chassis (see page 20) and open it.

► Set switch 3 of the DIP switches on the system board to ON, see figure 24 on page 39.

► Close the cover of the server blade and reinstall it in the blade server chassis, see page 19.

► Insert the BIOS flash floppy disk in a USB floppy disk drive and connect the floppy disk drive to the USB port of the server blade using the USB breakout cable, see Operating Manual.

- ► Press the KVM button on the control panel of the server blade (see Operating Manual) to switch the keyboard, mouse and the monitor of the KVM blade to the server blade.
- ► Switch on the server blade, see Operating Manual.

After a short beep, the BIOS is uploaded. The status of the flash process is displayed on the KVM console. After the flash is completed, instructions are displayed for the following procedure:

- ► Switch off the server blade.
- ► Remove the server blade and open it.
- ► Set switch 3 of the DIP switches on the system board to OFF.
- ► Close the server blade and reinstall it.
- ► Now you can put the server blade back into operation.

5.5 Spare Parts and Add-On Modules

The following spare parts and add-on modules are available for the PRIMERGY BX620 S3 2-way server blade:

Name	**Mat. no.**[1]	**Product no.**
S75 CPU-BLADE BX (server blade with type label, without processors and memory modules)	88040152	S26361-K921-V906
S75 CPU-BLADE BX (server blade with type label, without processors and memory modules, compliant with Clovertown processor, see page 26)		S26361-K921-V907
Processors (without heat sink)		
CPU XEON DP 5050 3,0GHz 2X2MB 667MHz	88039894	V26808-B7970-V12
CPU XEON DP 5080 3.73GHZ 2X2MB 1066MHZ	88040015	V26808-B7971-V12
CPU XEON DP 5110 1.60GHZ 4MB 1066MHZ	88040586	V26808-B8011-V10
CPU XEON DP 5130 2.00GHZ 4MB 1333MHZ	88040588	V26808-B8012-V10
CPU XEON DP 5140 2.33GHZ 4MB 1333MHZ	88040589	V26808-B8012-V11
CPU XEON DP 5150 2.66GHZ 4MB 1333MHZ	88040696	V26808-B8012-V12
CPU XEON DP 5160 3.00GHZ 4MB 1333MHZ	88040697	V26808-B8012-V13
CPU XEON DP5060 3,2GHz 2x2MB 1066MHz	88039895	V26808-B7971-V10
CPU XEON MV DP 5063 3.2GHZ 2X2MB 1066MHZ	88040089	V26808-B7971-V20
HEATSINK S72 PASSIV	88039953	SNP:A3C40071303
HEAT SINK DUMMY MODULE	84003686	SNP:A3C40073433
Memory Modules		
MEM 1GB 2X512MB FBD533 PC2-4200F ECC	88039898	S26361-F3313-L521
MEM 1GB 2X512MB FBD667 PC2-5300F ECC	34000446	S26361-F3230-L521
MEM 2GB 2X1GB FBD533 PC2-4200F D ECC	88039899	S26361-F3313-L522
MEM 2GB 2X1GB FBD667 PC2-5300F D ECC	34000447	S26361-F3230-L522
MEM 4GB 2X2GB FBD533 PC2-4200F D ECC	88039900	S26361-F3313-L523
MEM 4GB 2X2GB FBD667 PC2-5300F D ECC	34000448	S26361-F3230-L523
MEM 8GB 2X4GB FBD533 PC2-4200F D ECC	88039901	S26361-F3313-L524

Name	Mat. no.[1]	Product no.
Storage Modules		
S75 SATA BOARD	88039957	SNP:A3C40068922
S75 SAS MODUL	88039958	SNP:A3C40069852
S75 SAS+PCI-X	88039959	SNP:A3C40068919
S75 SAS+PCI-E	88039960	SNP:A3C40068921
SAS / RAID MODUL	88039961	SNP:A3C40069856
ITBBU LSI 256MB BRO	88039962	SNP:A3C40074700
RAID KEY LSI I-BUTTON, SAS RAID CARD	88039963	SNP:A3C40072799
I/O Modules (Daughter Cards)		
S72 ETHERNET I/O_ROHS	88040153	SNP:A3C40073437
FC DAUGHTER BOARD FOR BX 6 (ROHS)	88039627	SNP:A3C40073438
I/O Controller (PCI extension)		
ETH CTRL 2X1GBIT PCIE PRO/1000PT CU LP	88040024	INE:EXPI9402PTG2L20
ETH. 2X1GBIT PCI-X PRO/1000MT CU LP (R)	84003532	INE: PWLA8492MTG2L20-R
FC CTRL 2GBIT/S LP1050 MMF LC LP	88039400	SNP:A3C40068646
FC CTRL.2CHANNEL4GBIT/S LPE11002 MMF LC	88040027	SNP:A3C40074398
SCSI 1XU160 CONTROLLER, INT/EXT LP	88039565	ADT: ASC-29160LP/FSCROHS
Hard disk modules		
HDD SATA 60GB 7.2K HOT PLUG 2.5"	88039964	S26361-F3209-L60
HDD SAS 36GB 10K HOT PLUG 2.5"	88039966	S26361-F3208-L136
HDD SAS 73GB 10K HOT PLUG 2.5"	88039967	S26361-F3208-L173
FRAME HDD 2.5" (module frame for 2.5" hard disk)	88039952	SNP:A3C40058359
DUMMY 2.5" KPL (hard disk dummy module)	88039969	SNP:A3C40071759
Front Control Panel		
Control panel board with cable	88039954	SNP:A3C40075578

[1]Material number from the ErsinXP database

Current information about BX620 S3 spare parts and add-on modules is also provided by the interactive PRIMERGY BX6xx *Illustrated Spares Catalogue*. This catalogue can be downloaded from Internet. At the FSC extranet service site (*http://extranet.fujitsu-siemens.com/service*) you can go to the spares portal by clicking „Illustrated Spares Catalogue“ under the rubric „PRIMERGY“.

Abbreviations

ASR&R
Automatic Server Reconfiguration and Restart

BIOS
Basic Input/Output System

CD
Compact Disk

COM
Communication

CPU
Central Processing Unit

DBMS
Database Management System

DDR
Double Data Rate (RAM)

DIMM
Dual Inline Memory Module

DVD
Digital Versatile Disk

ECC
Error Correcting Code

EDC
Error Detection Code

EMC
Electromagnetic Compatibility

ESD
ElectroStatic Discharge, Electrostatic Sensitive Device

FC
Fibre Channel

GAM
Global Array Manager

HDD
Hard Disk Drive

HU
Height Unit

I/O
Input/Output

ID
Identification

IDE
Integrated Drive Electronics

IP
Internet Protocol

LAN
Local Area Network

LCD
Liquid Crystal Display

LED
Light-Emitting Diode

MGA
MEG-Array

MRL
Manual-Retention Latch

NIC
Network Interface Card

NMI
Non-Maskable Interrupt

PCI
Peripheral Component Interconnect

PDA
Prefailure Detection and Analyzing

POST
Power-On Self-Test

PSU
Power Supply Unit

RAID
Redundant Arrays of Independent Disks

ROM
Read-Only Memory

SAN
Storage Area Network

SAS
Serial Attached SCSI

SATA
Serial Advanced Technology Attachment

SCA
Single-Connector Attachment

SCSI
Small Computer System Interface

SCU
Server Configuration Utility

SFP
Small Form Factor Pluggable

USB
Universal Serial Bus

VGA
Video Graphics Adapter

VPD
Vital Product Data

WOL
Wakeup On LAN

Index

A
add-on modules 43

B
battery
  replace 34
  server blade 34
BIOS
  recover 41

C
consumables 15
control panel board 23
  remove 24–25
  replace 23

D
diagnostic LEDs 37
DIP switch settings 39
DIP switches 39
disposal 16
documentation 5
dummy heat sink 27, 33

E
electrostatic-sensitive devices 14
energy, save 15
environmental protection 15
ESD (modules with electrostatic-sensitive devices) 14

H
heat sink
  dummy module 27, 33
  fasten 32
  remove 27

L
labels 15
  MAC/iSCSI addresses 38
legend 7
lithium battery 13, 34

N
notational conventions 7
notes on safety 11

P
packaging 15
processor
  insert 28
processors
  install/remove 27

R
recover
  BIOS 41
recovery
  BIOS 41
recycling 16
replace
  battery 34

S
server
  energy, save 15
  environmental protection 15
server blade
  battery 34
  BIOS 41
  open 22
  remove from basic unit 20
service DVD 5
spare parts 43

T
take-back 16
target group 5

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Comments
Suggestions
Corrections

Submitted by

Comments on PRIMERGY BX620 S3
2-way Server Blade

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